



IntelliMindEd, 2(6); 2026, 102-120

DOI: [10.69687/ime.nseeepsd.2026.1.8](https://doi.org/10.69687/ime.nseeepsd.2026.1.8)

National Seminar on Effect of Ecopreneurship on Environment Protection & Sustainable Development

Financial Challenges of Micro, Small, and Medium Enterprises (MSMEs): An Empirical Analysis from East Godavari District of Andhra Pradesh

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Abstract

Introduction: Micro, Small, and Medium Enterprises (MSMEs) are universally recognized as critical drivers of economic growth, innovation, and social development, contributing approximately 30% to India's GDP and nearly 45% of total exports. East Godavari district, Andhra Pradesh, is a region known for its diverse economic activities transitioning from agriculture to industrialization. This study explores the significant financial challenges and developmental prospects of MSMEs in the district, investigating the primary constraints affecting MSME growth: access to finance, infrastructural deficiencies, and regulatory complexities.

Methodology: The study employs a mixed-method approach combining both quantitative and qualitative research techniques. The sample size was determined to be 193 MSMEs operating in East

IntelliMindEd | ISSN: 2998-8527, USA | National Seminar on Effect of Ecopreneurship on Environment Protection & Sustainable Development, Department of Commerce & Management Studies, AKNU, Rajamahendravaram, AP, India

Godavari district, selected through a stratified random sampling technique in which the population was first stratified by industry type (manufacturing, services, agriculture-based enterprises) to ensure proportional representation, with enterprises randomly selected within each stratum. Data were collected using structured questionnaires employing a 5-point Likert scale ranging from 1 (Strongly Disagree) to 5 (Strongly Agree), administered to 193 MSME owners and managers through face-to-face interviews and online surveys.

Results & Discussion: Of the 193 respondents, 53.89% are micro, 35.23% small and 10.88% medium enterprises; 45.08% are in manufacturing, 31.61% services and 23.32% agriculture-based; 44.56% are semi-urban, 35.23% urban and 20.21% rural; 39.38% have operated for 6-10 years; and 46.11% employ between 10 and 50 people. The first regression model ($Y = 5.236 + 0.684 \text{ Loan Amount} + 0.078 \text{ Credit Scores} - 0.814 \text{ Financial Constraints}$) shows loan amount and credit scores positively influence growth while financial constraints reduce it, all significant at $p = 0.00$. The second model ($Y = 4.256 - 0.524 \text{ Power Availability} - 0.511 \text{ Logistical Issues} - 0.756 \text{ Technology Adoption}$) confirms that infrastructural challenges reduce operational efficiency, with technology adoption showing the largest effect. The third model ($Y = 3.259 - 0.218 \text{ Regulatory Compliance Time} - 0.641 \text{ Number of Regulatory Procedures} - 0.512 \text{ Cost of Compliance}$) confirms regulatory complexity as a significant barrier. All three hypotheses are supported.

Conclusion: This research provides a detailed analysis of the impediments affecting the growth and operational efficiency of MSMEs in East Godavari district. Restricted financial accessibility, characterized by insufficient loan amounts, lower credit scores and severe financial constraints, significantly stifles MSME growth. Infrastructural challenges, particularly in power supply, logistics and technology adoption, emerged as significant barriers to operational efficiency, while prolonged compliance times, an increased number of regulatory steps and high compliance costs significantly hinder both establishment and expansion. The findings advocate targeted interventions aimed at enhancing financial access, upgrading infrastructure, and streamlining regulatory processes, supporting the long-term growth and viability of MSMEs and contributing to regional economic development.

Keywords: MSMEs; East Godavari; Andhra Pradesh; Financial Constraints; Access to Finance; Infrastructural Challenges; Regulatory Barriers; Multiple Regression Analysis; Likert Scale; Stratified Random Sampling.

1. Introduction

Micro, Small, and Medium Enterprises (MSMEs) are universally recognized as critical drivers of economic growth, innovation, and social development, particularly in developing countries like India. The MSME sector, often referred to as the backbone of the Indian economy, plays a vital role in fostering inclusive growth by providing employment opportunities, boosting industrial output, and contributing significantly to exports. According to the Ministry of Micro, Small, and Medium Enterprises, as of 2020, the sector contributed approximately 30% to India's Gross Domestic Product (GDP) and accounted for nearly 45% of the country's total exports (Government of India, 2020). These figures underline the sector's pivotal role in economic development and poverty alleviation, particularly in rural and semi-urban areas where large-scale industries are scarce.

East Godavari district, located in the state of Andhra Pradesh, serves as a compelling case study for analyzing the dynamics of MSMEs in a region characterized by both agricultural abundance and industrial potential. The district is renowned for its rich cultural heritage and economic diversity, hosting a variety of industries ranging from agriculture-based enterprises to manufacturing and services. The fertile land and the presence of the Godavari River have historically supported robust agricultural activities, making East Godavari one of the leading producers of rice, sugarcane, and other crops in Andhra Pradesh (Andhra Pradesh Economic Development Board, 2021). However, in recent years, there has been a noticeable shift towards economic diversification, with the growth of industries such as textiles, food processing, and small-scale manufacturing. This transition reflects a broader trend in the region towards embracing industrialization as a means of enhancing economic growth and reducing dependency on agriculture.

Regulatory hurdles also pose a significant challenge to the MSME sector in East Godavari. Complex and time-consuming bureaucratic procedures, coupled with a lack of clarity in regulatory requirements, create an unfavourable business environment for small and medium enterprises. These issues not only discourage new business ventures but also impede the growth of existing enterprises (Sharma, 2022). Moreover, limited market access, both within and outside the district, constrains the ability of MSMEs to scale up their operations and reach broader customer bases.

The MSME sector in East Godavari district, while endowed with significant economic potential, faces a range of challenges that need to be addressed to ensure its sustained growth and development. This research explores the problems and prospects of MSMEs in East Godavari, offering insights into strategies that can be employed to overcome these challenges and harness the sector's full potential. The following sections of this paper will delve deeper into these aspects: the next section will provide a comprehensive Review of Literature (ROL) that explores existing studies and theoretical frameworks relevant to MSMEs. This will be followed by a detailed Research Methodology section outlining the methods used to gather and analyze data. The Results and Discussions section will present the findings of the research, analyzing the current state and future prospects of MSMEs in East Godavari. Finally, the Conclusion will summarize the key insights and provide recommendations for policymakers and business leaders in the district and beyond.

2. Review of Literature

The Micro, Small, and Medium Enterprises (MSME) sector plays a pivotal role in the economic landscape of India, contributing significantly to employment, industrial output, and exports. This literature review aims to provide a comprehensive overview of the existing research on the challenges and opportunities faced by MSMEs, with a

particular focus on rural and semi-urban regions such as East Godavari district in Andhra Pradesh. By examining various aspects such as financial constraints, infrastructural challenges, regulatory hurdles, market access, technological adoption, and the impact of government policies, this section seeks to establish a robust foundation for understanding the factors influencing the growth and sustainability of MSMEs in East Godavari. Through the synthesis of key studies, the review also highlights gaps in the literature and identifies areas for further research, thereby setting the stage for the subsequent sections of this paper.

Role of MSMEs in Economic Development

MSMEs are widely recognized as a crucial component of economic development, particularly in emerging economies. They contribute significantly to employment, GDP, and exports. Research by Ghosh (2021) highlights that MSMEs account for about 30% of India's GDP and 45% of its exports, showcasing their pivotal role in economic growth and poverty alleviation. The need for supportive policies to sustain and enhance the sector's contributions is emphasized, particularly in regions like East Godavari, where economic activities are diversifying beyond agriculture.

Financial Constraints Faced by MSMEs

One of the critical challenges MSMEs face is access to finance. Kumar (2020) identifies that limited access to credit is a significant barrier to MSME growth, particularly in rural areas. Financial constraints prevent these enterprises from investing in new technologies and expanding their operations, which is particularly relevant for MSMEs in East Godavari, where financial infrastructure is still developing.

Infrastructure Challenges in Rural MSMEs

Infrastructure inadequacies are another major impediment to the growth of MSMEs in rural regions. Singh (2021) discusses the impact of unreliable power supply, poor

transportation networks, and limited access to modern communication technologies on MSMEs, highlighting how these challenges hinder their operational efficiency and ability to compete in broader markets.

Regulatory Barriers to MSME Growth

Sharma (2022) points out that complex and time-consuming bureaucratic procedures, coupled with a lack of clarity in regulatory requirements, create an unfavourable business environment for small and medium enterprises. These issues not only discourage new business ventures but also impede the growth of existing enterprises. In East Godavari, the regulatory environment has been identified as a key challenge that MSMEs must navigate to achieve sustainable growth.

Technological Adoption in MSMEs

The adoption of new technologies is essential for MSMEs to remain competitive in the modern economy. However, studies show that many MSMEs in rural areas, including East Godavari, lag in technological adoption due to a lack of resources, expertise, and awareness (Rao, 2021). This gap poses a significant challenge to the sector's growth potential.

Government Initiatives and MSME Support

Various government initiatives aimed at supporting MSMEs, such as the MUDRA scheme and the "Make in India" campaign, have been instrumental in providing financial and infrastructural support to the sector. However, the effectiveness of these initiatives in reaching rural MSMEs, particularly in districts like East Godavari, remains a subject of ongoing research (Government of India, 2020).

Socio-Economic Impact of MSMEs

MSMEs play a crucial role in socio-economic development by creating jobs and promoting entrepreneurship in rural areas. Their impact on poverty reduction, income

distribution, and social stability has been significant, particularly in regions where large-scale industrialization is limited (Ghosh, 2021).

Entrepreneurship and Innovation in MSMEs

Entrepreneurial orientation and innovation are critical for the success of MSMEs. Research by Verma and Singh (2020) shows that MSMEs that actively engage in innovation tend to perform better in terms of growth and profitability. However, the study also notes that innovation in rural areas like East Godavari is often constrained by a lack of resources and exposure to new technologies.

Digital Transformation in MSMEs

Digital transformation is increasingly becoming a necessity for MSMEs to stay competitive. Agarwal (2021) discusses the barriers to digital adoption in the MSME sector, particularly in rural regions. The study highlights that while digital tools can significantly enhance operational efficiency and market reach, factors such as digital literacy, internet accessibility, and cost concerns are major obstacles for MSMEs in districts like East Godavari.

Role of MSMEs in Employment Generation

The role of MSMEs in employment generation, especially in non-urban areas, is well-documented. Banerjee (2020) found that MSMEs are the second-largest source of employment in India, following agriculture. In East Godavari, the sector is crucial for providing livelihoods to a significant portion of the population, particularly in light of limited large-scale industrial presence.

Impact of COVID-19 on MSMEs

The COVID-19 pandemic has had a profound impact on MSMEs across the globe. According to Bhattacharya (2021), MSMEs in India, including those in East Godavari, faced severe disruptions due to lockdowns, supply chain interruptions, and reduced

demand. The study calls for targeted interventions to help MSMEs recover and build resilience against future shocks.

Credit Guarantee Schemes for MSMEs

Credit guarantee schemes have been implemented to improve credit flow to MSMEs. A study by Nair (2019) evaluates the effectiveness of such schemes, noting that while they have increased access to finance, there is still a significant gap in awareness and utilization among MSMEs in rural districts like East Godavari.

Supply Chain Management in MSMEs

Effective supply chain management is essential for the success of MSMEs, particularly in the manufacturing sector. Ramaswamy (2020) examines the challenges MSMEs face in managing their supply chains, including issues related to procurement, logistics, and inventory management. The study suggests that MSMEs in regions like East Godavari need to adopt more strategic approaches to supply chain management to improve efficiency and competitiveness.

3. Research Methodology

This section outlines the research methodology adopted for the study, detailing the objectives, hypotheses, sample size, sampling technique, and data collection methods. The study employs a mixed-methods approach, combining both quantitative and qualitative research techniques to comprehensively explore the challenges and opportunities faced by Micro, Small, and Medium Enterprises (MSMEs) in the East Godavari district of Andhra Pradesh. Through the use of structured questionnaires with a 5-point Likert scale and in-depth interviews, this research seeks to provide a nuanced understanding of the factors influencing the growth and sustainability of MSMEs in the region.

Objectives of the Research Study

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The primary objectives of this research study are:

1. To analyze the financial constraints faced by Micro, Small, and Medium Enterprises (MSMEs) in East Godavari district.
2. To examine the impact of infrastructural challenges on the operational efficiency of MSMEs.
3. To evaluate the regulatory barriers that hinder the growth and development of MSMEs in the region.

Hypotheses

Based on the objectives, the following hypotheses were formulated:

1. **H1:** Limited access to finance significantly hampers the growth of MSMEs in East Godavari district.
2. **H2:** Infrastructural challenges have a negative impact on the operational efficiency of MSMEs.
3. **H3:** Complex regulatory procedures are a significant barrier to the establishment and growth of MSMEs in the district.

Sample Size

The sample size for this study was determined to be 193 MSMEs operating in the East Godavari district. This sample size was chosen to provide a representative cross-section of the MSME sector in the region, ensuring the inclusion of enterprises from various industries, including manufacturing, services, and agriculture-based businesses.

Sampling Technique

A stratified random sampling technique was employed to select the MSMEs for this study. The population of MSMEs was first stratified based on industry type (e.g., manufacturing, services, agriculture-based enterprises) to ensure proportional representation from each sector. Within each stratum, enterprises were randomly

selected, ensuring that the sample accurately reflects the diversity of the MSME sector in East Godavari.

Data Collection Method

Data collection was conducted using structured questionnaires.

Structured Questionnaires: A detailed questionnaire was designed to gather quantitative data on various aspects of MSME operations, including financial access, infrastructure, regulatory challenges, market access, and technological adoption. The questionnaire employed a 5-point Likert scale to measure respondents' attitudes, perceptions, and experiences. The scale ranged from 1 (Strongly Disagree) to 5 (Strongly Agree), allowing for the collection of nuanced data on the various challenges and opportunities faced by MSMEs. The questionnaire was administered to 193 MSME owners and managers through face-to-face interviews and online surveys, depending on the respondents' availability and preference.

Data Analysis

The data collected using the 5-point Likert scale were analyzed using both descriptive and inferential statistical techniques. Descriptive statistics provided a summary of the respondents' attitudes and perceptions, while inferential statistics, including correlation and regression analyses, were used to test the hypotheses and identify the key factors influencing the growth and sustainability of MSMEs in East Godavari.

4. Results and Discussions

Demographic Analysis

This section presents an analysis of the demographic characteristics of the 193 Micro, Small, and Medium Enterprises (MSMEs) surveyed in the East Godavari district. The analysis covers key variables such as the type of enterprise, industry sector, location, years in operation, and number of employees. This demographic overview provides a

foundation for understanding the structure and dynamics of the MSME sector in East Godavari, which is essential for contextualizing the subsequent findings of the study.

Table No – 1: Demographic variables

Variables		No of Respondents	Percentage
Type of Enterprise	Micro	104	53.89
	Small	68	35.23
	Medium	21	10.88
	Total	193	100.00
Industry Sector	Manufacturing	87	45.08
	Services	61	31.61
	Agriculture-based	45	23.32
	Total	193	100.00
Location	Rural	39	20.21
	Semi-Urban	86	44.56
	Urban	68	35.23
	Total	193	100.00
Years in Operation	Less than 1 year	28	14.51
	1-5 years	41	21.24
	6-10 years	76	39.38
	More than 10 years	48	24.87
	Total	193	100.00
Number of Employees	Less than 10	48	24.87
	10-50	89	46.11
	51-100	41	21.24
	More than 100	15	7.77
	Total	193	100.00

Source: Primary data

From the above table, the majority of the respondents (53.89%) are from Micro enterprises, followed by small enterprises (35.23%), and a smaller proportion from medium enterprises (10.88%). This distribution indicates that Micro and Small enterprises are predominant in the East Godavari district, reflecting the typical structure of the MSME sector in many regions, where smaller enterprises make up the majority.

Manufacturing enterprises constitute the largest segment, accounting for 45.08% of the respondents. This is followed by the Services sector (31.61%) and Agriculture-based enterprises (23.32%). The significant presence of manufacturing MSMEs highlights a strong industrial base in the district, while the notable percentages in services and agriculture highlight the economic diversity within the region.

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A large proportion of the respondents are located in Semi-Urban areas (44.56%), with a considerable number in Urban areas (35.23%) and fewer in Rural areas (20.21%). This distribution reveals that Semi-Urban and Urban areas are the primary hubs for MSME activities in East Godavari, possibly due to better infrastructure, market access, and resources compared to Rural areas.

Most enterprises have been in operation for 6-10 years (39.38%), indicating that a significant number of MSMEs in the district have reached a level of maturity. 24.87% of the enterprises have been operational for more than 10 years, reflecting long-term business sustainability for some. Meanwhile, 21.24% of enterprises have been in business for 1-5 years, and 14.51% for less than 1 year, indicating ongoing entrepreneurial activity and business development in the district.

The largest group of enterprises (46.11%) employs between 10-50 people, which is typical for small and medium enterprises. A quarter of the respondents (24.87%) employ fewer than 10 people, which aligns with the significant proportion of Micro enterprises.

The demographic analysis reveals that the MSME sector in East Godavari is predominantly composed of Micro and Small enterprises, with a strong presence in the Manufacturing sector, primarily located in Semi-Urban and Urban areas. The majority of these enterprises have been in operation for a significant period (6-10 years), indicating stability, with employee numbers mostly ranging from 10 to 50.

Hypothesis Testing: Multiple Regression Analysis – 1: Limited access to finance significantly hampers the growth of MSMEs

In the context of analyzing the limited access to finance significantly hampers the growth of MSMEs, the regression equation can be formulated as follows:

$$Y = \beta_0 + \beta_1 \text{ loan amount} + \beta_2 \text{ credit scores} + \beta_3 \text{ financial constraints} + \epsilon$$

Where Y = Growth of MSMEs

Table No – 2: Coefficients Table

Coefficients	Variables	Value	P - Value
β_0	Constant	5.236	
β_1	Loan amount	0.684	0.00
β_2	Credit scores	0.078	0.00
β_3	Financial constraints	- 0.814	0.00

Source: Primary data and prepared from SPSS output

Regression Equation Interpretation

$$Y = 5.236 + 0.684 \text{ Loan Amount} + 0.078 \text{ Credit Scores} + 0.814 \text{ Financial Constraints} + \epsilon$$

Y represents the growth of MSMEs, measured by a quantifiable growth metric such as revenue growth, profitability, or business expansion.

Coefficients and Their Interpretations

- **Constant (β_0):** The intercept value of 5.236 indicates the expected value of Y (growth of MSMEs) when all other predictors (loan amount, credit scores, financial constraints) are zero. This could represent a baseline growth level under hypothetical conditions where these financial factors are not in play.
- **Loan Amount (β_1):** The coefficient of 0.684 reveals that for every unit increase in loan amount, there is a corresponding increase of 0.684 units in the growth of MSMEs, holding other variables constant. The p-value of 0.00 indicates this relationship is statistically significant, supporting the hypothesis that access to finance positively impacts growth.
- **Credit Scores (β_2):** A coefficient of 0.078 for credit scores implies a smaller yet positive impact on the growth of MSMEs for every unit increase in credit scores, everything else being constant. The statistical significance of this effect (p-value = 0.00) underscores the importance of good creditworthiness in facilitating growth.
- **Financial Constraints (β_3):** The negative coefficient of -0.814 implies that greater financial constraints (likely measured as greater difficulties in obtaining finance or managing cash flow) significantly hinder MSME growth. Each unit increase in

financial constraints leads to a decrease of 0.814 units in the growth of MSMEs. The statistical significance of this relationship (p-value = 0.00) strongly supports the hypothesis that financial constraints are a substantial barrier to growth.

The results effectively support the hypothesis (H1) that limited access to finance significantly hampers the growth of MSMEs in East Godavari district. All predictors in your model significantly influence growth, with loan amounts and credit scores positively impacting growth, and financial constraints negatively impacting it.

Multiple Regression Analysis – 2: Infrastructural challenges have a negative impact on the operational efficiency of MSMEs

In the context of analyzing the infrastructural challenges have a negative impact on the operational efficiency of MSMEs, the regression equation can be formulated as follows:

$$Y = \beta_0 + \beta_1 \text{ Power availability} + \beta_2 \text{ Logistical issues} + \beta_3 \text{ Technology adoption} + \epsilon$$

Where Y = Operational efficiency of MSMEs

Table No – 3: Coefficients Table

Coefficients	Variables	Value	P - Value
β_0	Constant	4.256	
β_1	Power availability	-0.524	0.00
β_2	Logistical issues	-0.511	0.00
β_3	Technology adoption	-0.756	0.00

Source: Primary data and prepared from SPSS output

The results of the multiple regression analysis for testing the impact of infrastructural challenges on the operational efficiency of MSMEs provide clear insights.

Regression Equation Interpretation

$$Y = 4.256 - 0.524 \times \text{Power Availability} - 0.511 \times \text{Logistical Issues} - 0.756 \times \text{Technology Adoption} + \epsilon$$

Y: Represents the operational efficiency of MSMEs.

Coefficients and Their Interpretations

- **Constant (β_0):** The intercept, 4.256, highlights the baseline level of operational efficiency when all predictors (power availability, logistical issues, technology adoption) are at zero. This hypothetical scenario indicates a base efficiency level in the absence of these infrastructural factors.
- **Power Availability (β_1):** The negative coefficient of -0.524 indicates that deficiencies in power availability significantly reduce the operational efficiency of MSMEs. This reveals that interruptions or inadequacies in power supply are detrimental to efficiency, and the statistically significant p-value of 0.00 underscores the robustness of this finding.
- **Logistical Issues (β_2):** Similarly, a coefficient of -0.511 for logistical issues shows a substantial negative impact on operational efficiency. Problems in logistics, such as transportation delays or supply chain inefficiencies, directly decrease the efficiency of MSME operations. The significance of this relationship is also confirmed by the p-value of 0.00.
- **Technology Adoption (β_3):** The coefficient of -0.756 is notably larger in magnitude compared to the other variables, indicating that technological challenges (or lack of technology adoption) have the most substantial negative impact on operational efficiency among the factors studied. This finding is statistically significant (p-value = 0.00), highlighting the critical role of technology in maintaining or enhancing operational efficiency.

The regression results strongly support the hypothesis that infrastructural challenges, specifically in terms of power availability, logistical issues, and technology adoption, negatively impact the operational efficiency of MSMEs. Each of these infrastructural elements has a statistically significant and negative impact on efficiency, clearly validating the second hypothesis (H2).

Multiple Regression Analysis – 3: Complex regulatory procedures are a significant barrier to the establishment and growth of MSMEs

In the context of analyzing the complex regulatory procedures are a significant barrier to the establishment and growth of MSMEs, the regression equation can be formulated as follows:

$$Y = \beta_0 + \beta_1 \text{ Regulatory Compliance Time} + \beta_2 \text{ Number of Regulatory Procedures} + \beta_3 \text{ Cost of Compliance} + \epsilon$$

Where Y = Establishment and growth of MSMEs

Table No – 4: Coefficients Table

Coefficients	Variables	Value	P - Value
β_0	Constant	3.259	
β_1	Regulatory Compliance Time	-0.218	0.00
β_2	Number of Regulatory Procedures	-0.641	0.00
β_3	Cost of Compliance	-0.512	0.00

Source: Primary data and prepared from SPSS output

The regression analysis on the impact of complex regulatory procedures on the establishment and growth of MSMEs provides valuable insights. Below is an interpretation of each component of the regression model based on the coefficients:

Regression Equation Interpretation

$$Y = 3.259 - 0.218 \times \text{Regulatory Compliance Time} - 0.641 \times \text{Number of Regulatory Procedures} - 0.512 \times \text{Cost of Compliance} + \epsilon$$

Y: Represents the establishment and growth of MSMEs.

Coefficients and Their Interpretations

- **Constant (β_0):** The intercept of 3.259 indicates the expected level of MSME establishment and growth when all predictors (compliance time, number of procedures, and compliance cost) are zero. This hypothetical value suggests a baseline level of growth or establishment rate under the most favourable regulatory conditions.

- **Regulatory Compliance Time (β_1):** A coefficient of -0.218 implies that an increase in the time required for regulatory compliance significantly reduces the establishment and growth rate of MSMEs. The negative impact is statistically significant (p-value = 0.00), underscoring that time delays due to regulatory processes are a barrier to business activity.
- **Number of Regulatory Procedures (β_2):** The coefficient of -0.641 reveals a strong negative effect, indicating that a higher number of regulatory steps required substantially hampers the ability of MSMEs to establish and grow. The significance of this result (p-value = 0.00) supports the hypothesis that regulatory complexity is a major impediment.
- **Cost of Compliance (β_3):** With a coefficient of -0.512, this indicates that higher costs associated with compliance also significantly detract from the establishment and growth of MSMEs. The p-value of 0.00 confirms the statistical significance of this finding, emphasizing the financial burden of regulatory compliance as a critical factor.

The regression results convincingly support your third hypothesis, demonstrating that complex regulatory procedures are indeed significant barriers to the establishment and growth of MSMEs. Each of the factors, compliance time, number of procedures, and cost of compliance has a statistically significant negative impact on business outcomes.

5. Conclusion

This research provides a detailed analysis of the impediments affecting the growth and operational efficiency of Micro, Small, and Medium Enterprises (MSMEs) in the East Godavari district, employing a robust statistical framework that blends both descriptive and inferential methodologies. The empirical evidence gathered from multiple regression analyses has yielded insightful findings on the critical challenges posed by

limited access to finance, infrastructural deficiencies, and complex regulatory frameworks.

Firstly, the study highlights how restricted financial accessibility, characterized by insufficient loan amounts, lower credit scores, and severe financial constraints, significantly stifles MSME growth. Notably, while increased loan amounts and improved credit scores positively influence growth, escalating financial constraints exert a pronounced negative impact. This suggests that enhancing financial accessibility could be a pivotal strategy for fostering MSME development and sustainability in the district.

Secondly, infrastructural challenges, particularly in terms of power supply, logistics, and technology adoption, emerged as significant barriers to operational efficiency. The negative coefficients associated with these variables confirm that deficiencies in critical infrastructure not only hamper efficiency but also undermine the potential for growth among MSMEs. Addressing these infrastructural issues could lead to substantial improvements in productivity and efficiency, thereby supporting the broader economic ecosystem.

Lastly, the research underscores the substantial hurdles posed by complex regulatory procedures. The negative impacts of prolonged compliance times, an increased number of regulatory steps, and high compliance costs are profound, significantly hindering both the establishment and expansion of MSMEs. Simplifying these regulatory processes could therefore serve as a catalyst for entrepreneurial activity and business expansion within the region.

Overall, the findings from this study advocate for targeted interventions aimed at enhancing financial access, upgrading infrastructure, and streamlining regulatory processes. Such initiatives would not only alleviate the identified barriers but also

support the long-term growth and viability of MSMEs in East Godavari, contributing to regional economic development.

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